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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,477	09/12/2003	Richard A. Haight	20140-00303-US1	6311
30678	7590 10/05/2005	EXAMINER		INER
CONNOLLY BOVE LODGE & HUTZ LLP			EVANS, GEOFFREY S	
SUITE 800 1990 M STR	REET NW		ART UNIT	PAPER NUMBER
	WASHINGTON, DC 20036-3425			
			DATE MAILED: 10/05/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

· ·	Application No.	Applicant(s)			
Office Astinus Commons	10/660,477	HAIGHT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Geoffrey S. Evans	1725			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-48 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-48 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	vn from consideration. r election requirement. r. epted or b) □ objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 20030912.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	(PTO-413) te atent Application (PTO-152)			

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DETAILED ACTION

- 1. Claims 43-48 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. It is unclear how a "harmonic conversion cell" operates using rare gases to tune a wavelength.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 1-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in U.S. Patent Application Publication No. 2003/0111447 in view of Zait et

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al. in WO 03/022506 A1 and Karasaki in Japan Patent No. 63-49,388. Corkum discloses repairing defects in lithographic photomasks using femtosecond laser pulses and inspecting the mask using a CCD camera but not tuning the wavelength to the specific material being ablated. Zait et al. teaches that photomasks have multiple layers (e.g. see page 10). Karasaki teaches tuning the wavelength to the wavelength corresponding to the material that maximizes absorption and minimizes reflection. It would have been obvious to adapt Corkum et al. in view of Zait et al. and Karasaki to provide tuning the wavelength to optimize cutting of the desired material to be cut while

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Drozdowicz et al. has a mask repair system with a harmonic converter (made of a crystal) to adjust the wavelength of the laser beam.

mininimizing damage to the other materials on the substrate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S Evans whose telephone number is (571)-272-1174. The examiner can normally be reached on Mon-Fri 6:30AM to 4:00 PM, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571)-272-1171. The fax phone number for the organization where this application or proceeding assigned is (703)-872-9306.

GSE

Geoffey S. Evans
Primary Examiner
Group 1700